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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/645,757	08/21/2003	Charles R. DeJohn	89190.038903/DP309621	89190.038903/DP309621 8045	
22851 75	590 08/20/2004		EXAMINER		
DELPHI TEC M/C 480-410-2	CHNOLOGIES, INC.		MASIH,	KAREN	
PO BOX 5052	.02		ART UNIT	PAPER NUMBER	
TROY, MI 48	8007		2837		
			DATE MAILED: 08/20/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/645,757 DEJOHN, CHARLES R.		
Office Action Summary	Examiner	Art Unit	
	karen masih	2837	An
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	,
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communicat (35 U.S.C. § 133).	lion.
Status			
1) Responsive to communication(s) filed on	_•		
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits	is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	vn from consideration.		
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		xaminer.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121	I(d).
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) Notice of Proffences Cited (PTO-892)	4) Interview Summary (Paper No(s)/Mail Da	•	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>1/27/04</u>. 		atent Application (PTO-152)	

Art Unit: 2837

- 1. The drawings are objected to because fig 1 boxes need to be labeled descriptively. Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Diener et al in view of Mossman et al , Sanvido et al and Daniel et al .

Page 3

Art Unit: 2837

Diener et al discloses motor as an actuator of a moveable element against a variable load, method for increasing torque output of motor to overcome load exceeding nominal type output of motor comprising steps of sensing when high load condition exists and increasing voltage provided to motor to increase torque output when high load exists, see col 3 lines 10-65, and col 4 lines 5-25. Diener et al lacks disclosing stepper motor, pintle and air valve, and fuel cell. Mossman et al disclose stepping motor see col 4 lines 1-65. Sanvido et al discloses pintle and air valve see col 7 lines 10 and 53. Daniel et al discloses fuel cell, see abstract. It would have been obvious to one of ordinary skill in the are t combine apparatus of Diener et al with stepper motor of Mossman et al since any type of motor could be utilized if desired in place of specific motor and pintle and air valve of Sanvido et al and fuel cell of Daniel et al are for improved torque control.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to karen masih whose telephone number is 571-272-2068. The examiner can normally be reached on m-f 8.30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, david martin can be reached on 571-272-2800 ext 41. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/645,757

Art Unit: 2837

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

karen masih Primary Examiner Art Unit 2837 Page 4

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